M. A. R. 57 (Rule 116) **No. E**

Measurement Book

597714

Serial No. 2nd and Part Bill

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency Sri Nanjundeshwara Construction (Rajesh. M)

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work :- Providing Gallery to musical fountain in JP Park Ward No-17 and Drilling of Borewells. providing water Supply and Construction of RO plat. in Rajarajeshwari Nagara Constituency und package - 2022-23 RRN-DIN-(10)						
	Job Code :- 017-23-00000 2 (D38=7)						
	Work order No :- EE/RRND/WO/000057/2022-23						
	AS No :- EE/RRND/AS/37/2022-23					Date: 20.09.2022	
	TS No :- CE/RRN/TS/65/2022-23					Date 8.07.2022	
	Estimate Cost :- 1500.00 Lakhs						

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MEASUREMENT BOOK

Date / S.No.	Full description, etc. of work / Item 2	Unit	Dimensions: Number / Pcs	Length / Qty	Breadth / Cost 5	Depth / Qty	Contents / Cost 7	Reference to last Measurement: Qty 8	Cost
1.	Earth wk Excavation by manual means pf drain. canals.	Cum	263.00	2294.68	603500	0.00	0.00	2294.68	603500.31
2.	Providing and Laying in position plain Cement	Cum	6384.00	269.66	1721506.25	0.00	0.00	269.66	1721506.25
3.	KSRB 2.8 providing and filling in foundation	Cum	2944.00	167.01	491688.89	0.00	0.00	167.01	491688.89
4.	Providing and Laying in position Reinforced Cement	Cum	7680.00	377.74	2901050.88	0.00	0.00	377.74	2901050.88
5.	providing and laying in position Reinforced Cement Concrete M_{25}	Cum	7822.00	114.49	895503.63	0.00	0.00	114.49	895503.63

M. A. R. 57 (Rule 116)
Measurement Book
No. E

Serial No. .....
597715
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date 1	Full description, etc, of work 2		Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8	
6.	providing and laying in position Reinforced Cement Concrete M_{25}	Cum	8533.00	356.79	3044496.75	0.00	0.00	356.79	3044496.75
7.	Supplying fitting and placing TMT Fe500	Tons	96634.00	133.46	12897130.97	0.00	0.00	133.46	12897130.97
8.	Earth wok Excavation by manual means pf drain. canals	Cum	263.00	186.75	49115.78	0.00	0.00	186.75	49115.78
9.	providing and laying in position plain Cement Concrete Mix 13:6	Cum	6354.00	34.26	217739.78	0.00	0.00	34.26	217739.78

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MEASUREMENT BOOK

Date	Full description, etc. of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
10.	providing and laying In position Reinforced M_{25} - 0sem to 5.5cm thick	Cum	7407.00	29.92	221587.81	0.00	0.00	29.92	221587.81
11.	providing and laying in position Reinforced-M_{25} of above 8cm	Cum	7910.00	3.40	26909.82	0.00	0.00	3.40	26909.82
12.	providing and laying in position Reinforced Cement	Cum	8630.00	31.01	267615.22	0.00	0.00	31.01	267615.22
13.	Supplying fitting and placing TMT Fe 500	Tonne	96430.00	7.66	74216.44	0.00	0.00	7.66	740216.44
14	providing Size stone masonry with hard Stone in foundation	Cum	6153.00	72.80	447839.45	.000	0.00	72.80	447839.45

M. A. R. 57 (Rule 116)
Measurement Book

No. E

597716

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
15.	providing and Constch Load bearing wall	Sqm	1375.00	327.27	449959.38	0.00	0.00	327.27	449959.38
16.	providing 20 mm Cement plaster @ mix 1:4	Sqm	344.00	859.13	295539.00	0.00	0.00	859.13	295539.00
17.	providing 12mm Cement plaster with Cement mortar 1:4	Sqm	245.00	108.52	26586.79	0.00	0.00	108.52	26586.79
18.	Finishing walls with Acrylic Smooth Exterior paint	Sqm	156.00	967.64	150952.23	0.00	0.00	967.64	150952.23

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MEASUREMENT BOOK

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
19.	providing and laying water proofing treatment	Sqm	856.00	108.52	92890.98	0.00	0.00	108.52	92890.98
20.	providing and laying V.trified floor tiles in different sizes	Sqm	1163.00	128.21	149105.32	0.00	0.00	128.21	149105.32
21.	Supplying and fixing rolling shutter @ approved	Sqm	2855.00	43.73	126161.15	0.00	0.00	43.73	126161.05
22.	Supplying heavy gauge PVC conduit pipe	m	84.00	403.00	33852.00	0.00	0.00	403.00	33852.00
23.	Supplying.. mm dia 2mm / 2.5mm Thick heavy gauge PVC	m	73.00	403.00	29419.00	0.00	0.00	403.00	29419.00

M. A. R. 57 (Rule 116)
Measurement Book

No. E

597717

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
24.	Groove cutting in the wall supplying.. dia 2mm / 2.5mm Thick	m	84.00	324.00	27216.00	0.00	0.00	324.00	27216.00
25.	Supplying and fixing sheet metal box made out of 18 SWG								
	a) 180 X 90 X 65 mm	Each	137.00	25.00	3425.00	0.00	0.00	25.00	3425.00
26.	b) 180 X 90 X 65 mm	Each	162.00	25.00	4050.00	0.00	0.00	25.00	4050.00
27.	c) 200 X 90 X 65 mm	Each	177.00	25.00	4425.00	0.00	0.00	25.00	4425.00

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MEASUREMENT BOOK

Date	Full description, etc. of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
28.	Supplying and fixing pvc/metal Conduit Accessories	each	53.00	40.00	2120.00	0.00	0.00	40.00	2120.00
29.	a. Deep junction box c) 32mm deep junction box	each	72.00	40.00	2880.00	0.00	0.00	40.00	2880.00
30.	Supplying and flush mouting teak wooden box without	m	117.00	8.00	936.00	0.00	0.00	8.00	936.00
31.	b) 12" X9" X3" (30c x22.5c x8c)	m	110.00	8.00	880.00	0.00	0.00	8.00	880.00
32.	Supplying and wiring adopting loop system to	each	285.00	75.00	21600.00	0.00	0.00	75.00	21600.00
33.	b) medium point above 3mt up to 6mtr from supply point to last Lot	each	403.00	74.00	29822.00	0.00	0.00	74.00	29822.00

M. A. R. 57 (Rule 116) No. E

Measurement Book

Serial No. .....

597718

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
34.	Supplying and wiring adopting loop system	each	262.00	75.00	19650.00	0.00	0.00	75.00	19650.00
35.	b) medium point above 3mtr upto 6mtr	each	377.00	74.00	27898.00	0.00	0.00	74.00	27898.00
36.	Supplying and fixing superior Quality	each	255.00	69.00	17595.00	0.00	0.00	69.00	17595.00
37.	Supplying and fixing of Modular switch /Socket	each	92.00	41.00	3772.00	0.00	0.00	41.00	3772.00
38.	i) 32 Amps DP switch	each	392.00	16.00	6272.00	0.00	0.00	16.00	6272.00
	j) 6/16 Amps universal Socket	each	260.00	120.00	31200.00	0.00	0.00	120.00	31200.00

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2		Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8	
40.	Supplying and fixing 32 Amps Isolator	Each	781.00	16.00	12496.00	0.00	0.00	16.00	1249..
41.	Wiring for lighting / Power Circuit using	m	19.00	1200,00	22800.00	0.00	0.00	1200.00	22800..
42	b. 1.5 sqmm	m	27.00	1200.00	32400.00	0.00	0.00	1200.00	32400..
43.	C. 6 Sqmm	m	91.00	1580.00	143780.00	0.00	0.00	1580.00	14378..
44.	Supplying and fixing of PVC casing	m	28.00	158.00	4424.00	0.00	0.00	158.00	4424..
45.	Supplying PVC / GI flexible Conduit pipe	Nos	26.00	105.00	2730.00	0.00	0.00	105.00	2730..
46.	Extra for supplying 4mm Thick white plastic	Nos	12.00	82.00	984.00	0.00	0.00	82.00	984..

M. A. R. 57 (Rule 116)
Measurement Book

No. E 597719

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date 1	Full description, etc, of work 2		Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8	
47.	Supplying a 50mm wooden plug, tapered	No's	8.00	82.00	656.00	0.00	0.00	82.00	656.00
48.	Supplying and fixing of Slim fitting, mole air of CRCA	Each	324.00	33.00	10692.00	0.00	0.00	33.00	10692.00
49.	Supplying and fixing of TS. fluorescent	Each	180.000	33.00	5940.00	0.00	0.00	33.00	5940.00
50.	providing and placing on terrace	Ltr	9.00	16000.00	144000.00	0.00	0.00	16010.00	144000.00

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MEASUREMENT BOOK

Date	Full description, etc. of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
51.	providing and fixing chlorinated polyvinyl chloride (CPVC)	mtr	363.00	146.00	52998.00	0.00	0.00	146.00	52998.00
52.	providing and fixing chlorinated polyvinyl chloride	mtr	452.00	125.00	56500.00	0.00	0.00	125.00	56500.00
53	providing and fixing Square-mouth S.W gully trap class-1	Each	2643.00	17.00	44931.00	0.00	0.00	17.00	44931.00
54.	Raw water Feed pump with Starter Type-Horizontal	Nos	25563.00	16.00	409643.00	0.00	0.00	16.00	409643.00

M. A. R. 57 (Rule 116)
Measurement Book

No. E 597720

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
55	multi grooded Sand filter type-Vertical Floor mounted	Nos	34485.00	16.00	551760.00	0.00	0.00	16.00	551760.00
56.	Activated carbon filter type-Vertical	Nos	65313.00	8.00	522504.00	0.00	0.00	8.00	522504.00
57	water softner type-Vertical.	Nos	64790.00	8.00	518320.00	0.00	0.00	8.00	518320.00
58.	Antiscalent Dosing System. Equipment	Nos	88525.00	8.00	710600.00	0.00	0.00	8.00	710600.00

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MEASUREMENT BOOK

Date	Full description, etc. of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
59	Accessories of Dosing System. Solution	Nos	43890.00	8.00	351120.00	0.00	0.00	8.00	351120.00
60.	Reverse Osmosis System type: Horizontal	Nos	93005.00	8.00	744040.00 - 351120.00	0.00	0.00	8.00	744040.00
61.	pressure Vessel, material of Construction FRP	Nos	88825.00	8.00	710600.00	0.00	0.00	8.00	710600.00
62.	membrane Type-brackish water	Nos	91960.00	8.00	735680.00	0.00	0.00	8.00	735680.00
63.	High pressure pump	Nos	57285.00	8.00	459880.00	0.00	0.00	8.00	459880.00
64.	Micron Filter. type	Nos	81610.00	8.00	652080.00	0.00	0.00	8.00	652080.00

M. A. R. 57 (Rule 116) No. E 597721

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
65.	Induction. wet panel MS powder coated	Nos	89870.00	8.00	718960.00	0.00	0.00	8.00	718960.00
66.	pH Correction dosing System Equipment	Nos	86735.00	8.00	693880.00	0.00	0.00	8.00	693880.00
67.	Solution Tank Level Switch. Solution	Nos	15675.00	8.00	125400.00	0.00	0.00	8.00	125400.00
68.	Inter-connecting pipe work. Raw water tank	Nos	81510.00	8.00	652080.00	0.00	0.00	8.00	652080.00
69.	Ultra Violet System model - UVS -20	Nos	77853.00	8.00	622824.00	0.00	0.00	8.00	622824.00

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MEASUREMENT BOOK

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
70	20 water Storg Tank 2000 Ltrs SS tank.	Nos	52600.00	8.00	668800.00	0.00	0.00	8.00	668800.00
71.	Mending machine. Digital weighing Good	Nos	36575.00	8.00	292600.00	0.00	0.00	8.00	292600.00
72.	Geophysical Investigation at site	Nos	5372.00	3.00	16116.00	0.00	0.00	3.00	16116.00
73.	Sinking of Borewell of 165mm dia - 50 m	Rmt	363.00	150.00	54450.00	0.00	0.00	150.00	54450.00
74.	50 to 100 m	Rmt	462.00	150.00	69300.00	0.00	0.00	150.00	69300.00
75.	100 to 150 m	Rmt	477.00	150.00	71550.00	0.00	0.00	150.00	71550.00
76.	150 to 200 m	Rmt	560.00	151.00	84000.00	0.00	0.00	150.00	84000.00
77.	200 to 250 mm	Rmt	663.00	150.00	99450.00	0.00	0.00	150.00	99450.00
78.	250 to 300 mm	Rmt	732.00	150.00	109800.00	0.00	0.00	150.00	109800.00

M. A. R. 57 (Rule 116) No. E
Measurement Book

597722

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
79.	300 to 350 mm	Rmt	862.00	150.00	129300.00	0.00	0.00	150.00	129300.00
80.	350 to 400 mm	Rmt	941.00	150.00	141150.00	0.00	0.00	150.00	141150.00
81.	400 to 420 mm	Rmt	1180.00	60.00	70800.00	0.00	0.00	60.00	70800.00
82.	providing and fixing 250 mm dia PVC Casing pipe)	Rmt	2717.00	0.00	0.00	0.00	0.00	0.00	0.00
83.	Supply ISI mark. 175 mm nominal bore	Rmt	2020.00	0.00	0.00	0.00	0.00	0.00	0.00
84.	providing & fixing MS casing Collers	Each	157.00	0.00	0.00	0.00	0.00	0.00	0.00

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MEASUREMENT BOOK

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
85.	providing 175mm dia Bore Cap CE (M)	No	105.00	0,00	0.00	0.00	0.00	0.00	0.00
86.	Atalanta Suguna CR3 KIRLOSKAR and other	No	5203.00	0.00	0,00	0.00	0.00	0.00	0.00
87.	providing and fixing in trenches galvanised	Rt	430.00	0.00	0.00	0.00	0.00	0.00	0.00
88.	Supplying and drawing 3 core flat PVC Shethed	Rt	132.00	0.00	0.00	0.00	0.00	0.00	0.00
89.	providing and fixing in position 50mm Nominal	No	1406.00	0.00	0.00	0.00	0.00	0.00	0.00

M. A. R. 57 (Rule 116)
Measurement Book

No. E 597723

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
133.	Earth work in Surface Excavation by mech	Cum	168.00	0.00	0.00	4839.56	813046.08	4839.56	813046.08
134.	Construction of Granular Sub. Base of required	Cum	2698.00	0.00	0.00	2903.74	7834277.73	2903.74	7834277.73
135.	providing, Laying Spreading and Compacting	Cum	2752.00	0.00	0.00	3387.69	9322928.38	3387.69	9322928.38
136.	providing and applying primer Coat	Sqm	48.00	0.00	0.00	1935824	929195.52	19358.24	929195.52

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MEASUREMENT BOOK

Date	Full description, etc. of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth			
1	2		3	4	5	6	7	8	
137	Bituminous macadam Grading - II	Cum	9537.00	0.00	0.00	967.91	8263064.72	967.91	8263064.72
138.	Providing and applying tack coat with RS1 Bituminous Emulsion	Sqm	13,00	0.00	0.00	64517.39	8387726.01	64517.39	8387726.01
139.	Bituminous Concrete Grading II for traffic	Cum	12197.00	0.00	0.00	258.70	3147674.79	1580.70	814767441.79
140.	Rock marking with Hot applied Thermoplastic	Sqm	549.00	0.00	0.00	2320.90	1274174.10	2320.90	1274174.10

M. A. R. 57 (Rule 116) No. E
Measurement Book
597724

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Total Construction Cost		37607081.73			407521565.35	983592308.08
	GST 18%		6769274.711			73353882.14	177046662.86
	Total Amount		44376356.44			7168754450	1160639000.94

Assistant Executive Engineer
Rajarajeshwari Construction Division
BBMP Bengaluru

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate 1. The above work has been Completed Satisfactorily 2. The debris has been removed and disposed from the work spot 3. No departmental issues are made to the Contractor. M. [signature]						

Assistant Executive Engineer
Rajarajeshwari Nagar Sub Division
BBMP Bengaluru

M. A. R. 57 (Rule 116)
Measurement Book

No. E 597725

← N
BLOCK-26

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Existing Asphalt Road W 17.7 L 69.42 L 46.36 W 13.3 Ullal main Road M. [signature]						

Assistant Executive Engineer
Rajarajeshwari Nagar Sub Division
BBMP Bengaluru

INDEX
Asphalt Road

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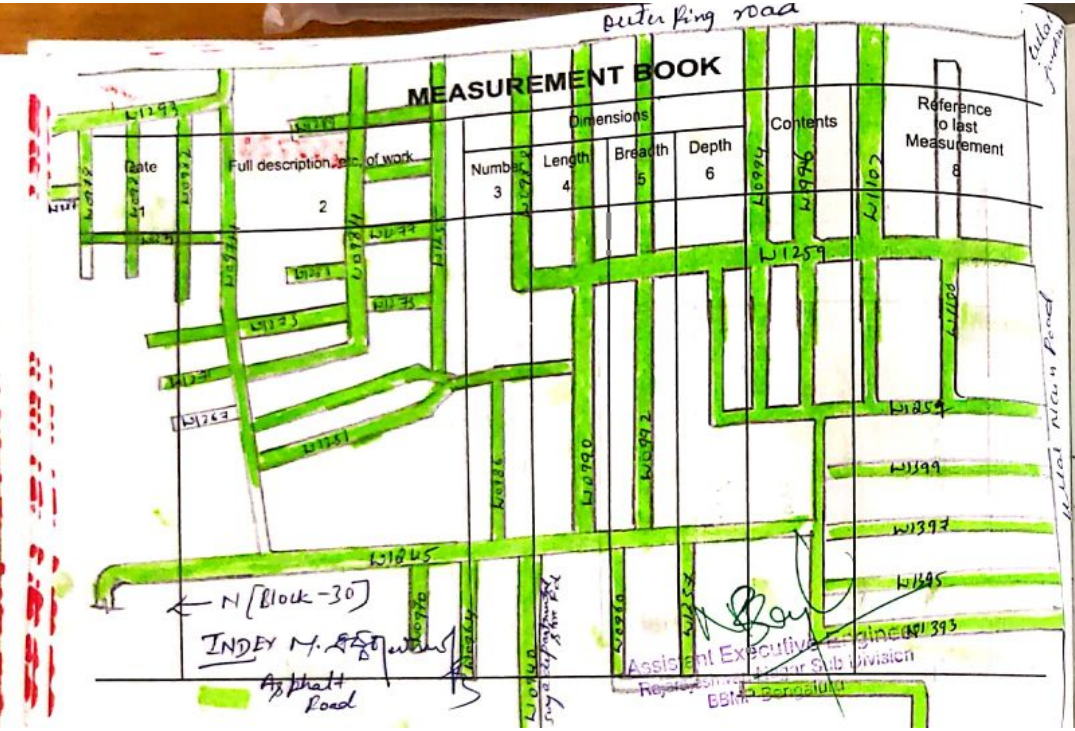

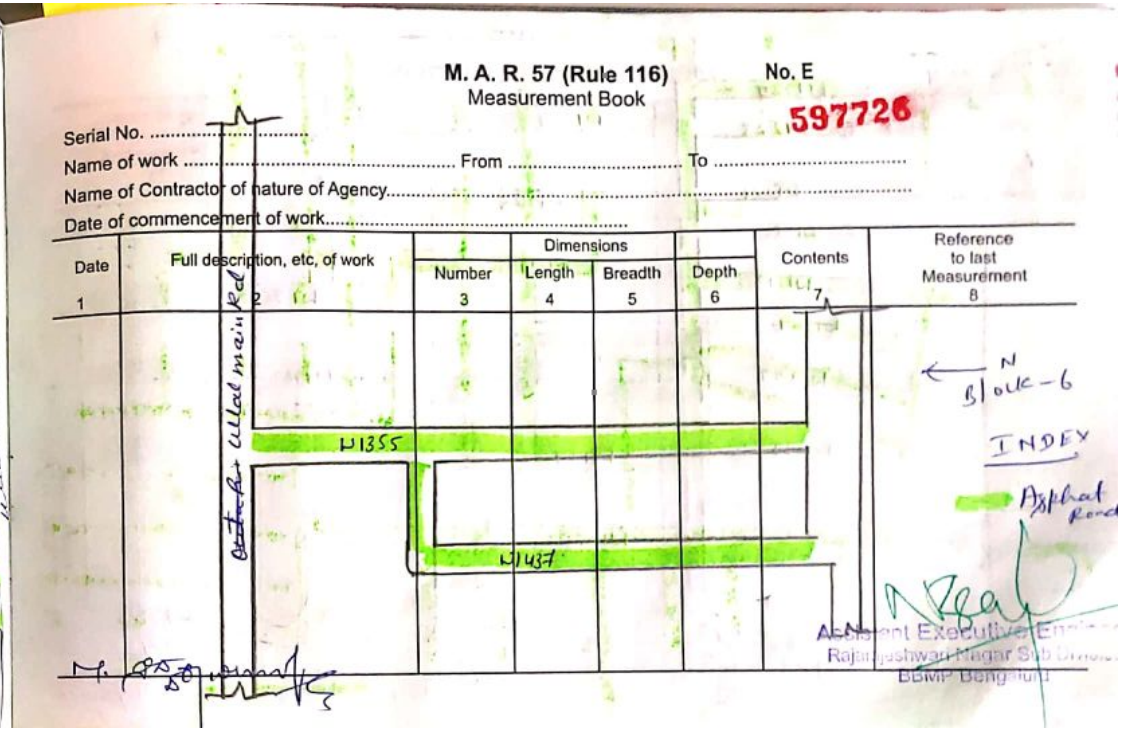

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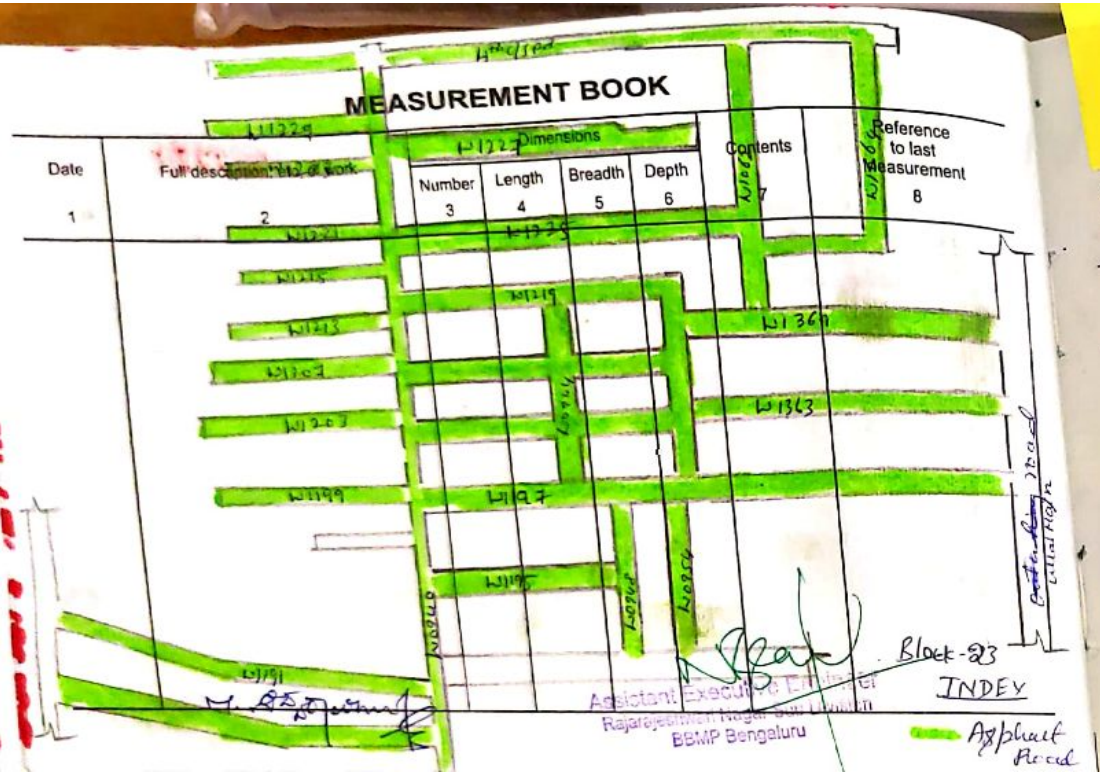

M. A. R. 57 (Rule 116) No. E

Measurement Book

597727

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Audited and admitted for Rs. 7,16,87,544

Passed by Cheque for Rs. 6,68,89,940

(Six crore Sixty Eight Lakh Eighty Nine Thousand Nine hundred forty)

by adjustment 47,97,604

Accounts Superintendent

Rajarajeshwari Nagar Division, BBMP

Exe. Engineer

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